We Claim:

1	1. A method for displaying an image through a microlens
2	sheet, comprising steps of:
3	inputting a physical constraint data into a retrievable data
4	storage device;
5	inputting an image quality data into a retrievable data
6	storage device;
7	retrieving the physical constraint data and the image
= 8	quality data into a programmable data processor;
8 9	calculating a microlens specification data based on the
10	retrieved physical constraint data and the retrieved image
1 11	quality data, utilizing the programmable data processor;
12	calculating a microlens processing tool specification data
<u>1</u> 3	based on the calculated microlens specification data;
<u>11</u> 4	manufacturing a microlens processing tool based on the
15	calculated microlens processing tool specification data
16	manufacturing a microlens sheet utilizing the microlens
17	processing tool;
18	inputting a digitized image into a retrievable storage
19	medium;
20	retrieving the digitized image into a programmable data
21	processor;
22	formatting the digitized image into a pixel array based on
23	the calculated microlens specification data;
24	outputting the pixel array to a printing device;
25	printing the outputted pixel array on a printable medium;
26	and

- 28 microlens sheet.
- A method according to claim 1, wherein the physical 1
- 2 constraint data includes a thickness constraint data.
- 1 A method according to claim 1 wherein the step of
- 2 calculating a microlens specification data uses ray tracing.
- 1 2 3 4 1 4. A method according to claim 1 wherein the image quality data
 - is a subjective data having a scalar value corresponding to a
 - subjective image quality criterion.
 - A method according to claim 1 wherein the physical
- **2** constraint data includes a data describing a performance
 - characteristic of an output device for carrying out the step of
 - printing the outputted pixel array on a printable medium.
 - 1 A method according to claim 1 wherein the step of forming a
 - 2 microlens sheet utilizing the microlens processing tool forms the
 - 3 microlens sheet with an ink-receptive surface.
 - 1 A method according to claim 7 wherein the printable medium
 - is the ink receptive surface. 2